

Material Characteristics

PHYSICAL & DIMENSIONS PROPERTIES			
PROPERTIES	UNIT	TEST METHOD	TEST RESULTS
Normal Thickness	Mm		3-18mm
Thickness	Mm	EN 438-2-5	18.0+/-0.2mm
Length & Width	Mm	EN 438-2-6	-0/+4mm
Density	g/cm3	EN ISO 1183-1:2004	0.67
Dimensional Stability at Elevated Temperature			
Longitudinal Direction	%	EN 438-2 -17	0.3
Transverse Direction	%	EN 438-2 -17	0.15
MECHANICAL PROPERTIES			
Resistance to Immersion in Boiling Water (2 hours)			
Mass Increase	%		1.2%
Thickness Increase		EN 438-2 -12	4.3%
Appearance Rating	Rating		5
Resistance to Impact by Large Diameter Ball			
Drop Height	mm	EN 438-2 -21	2000
Diameter of Indentation	mm		No visible change
Flexural Strength	Mpa	EN ISO 178: 2003	561
Flexural Modulus	Mpa		25.7
Resistance To Craziing	Rating	EN 438-2 -24	5
SURFACE PROPERTIES			
Resistance To Water Vapor	Rating	EN 438-2 -14	5
Resistance to Dry Heat at 160° C	Rating	EN 438-2 -16	0.10%
Resistance to Wet heat @100° C	Rating	EN 438-2 -18	0.05%
Resistance to Surface Wear, IP	Rev	EN 438-2 -10	1700
Light fastness (Xenon Arc Lamp)- Grey Scale Contrast	Rating	EN 438-2 -27	4 To 5
FIRE PERFORMANCE			
Reaction to Fire	Euroclass	EN 1350-1	B-s2, d0
Volatle Organic Compounds (VOC) Emission	Rating	ISO 16000-9	Complies